

Capacitors For Power Electronics

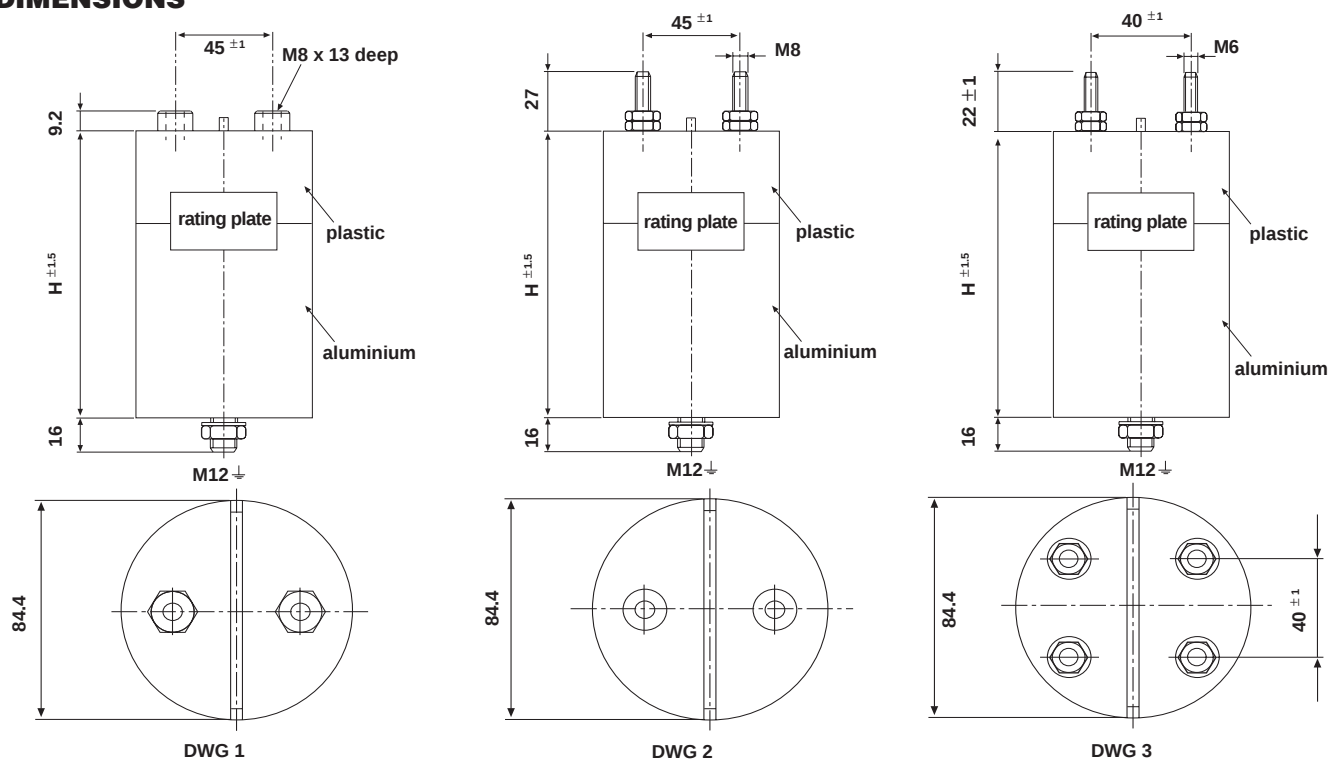


FEATURES

- Highest RMS current rating, low ESR
- High impulse current rating
- Very low inductance
- Extremely low losses even at high frequencies
- High reliability and life expectancy
- Heavy duty shock and vibration
- Non-polar dielectric
- Dry, resin filled
- Easy mounting by integrated M12 stud on base
- Highest energy content

GENERAL SPECIFICATIONS	
Dielectric	Metalized Polypropylene
Temperature coefficient (TCC)	- 2.3% from - 20°C to + 70°C
Dissipation factor (DF)	$< 8 \times 10^{-4}/1\text{kHz}$; $< 50 \times 10^{-4}/10\text{kHz}$
Series Resistance (Rs)	$< 3\text{m}\Omega/1\text{kHz}$; $8\text{m}\Omega/100\text{kHz}$
Capacitance tolerance	$\pm 5\%$
Operating temperature	- 40°C to + 70°C at UN - 40°C to + 85°C at $0.7 \times \text{UN}$ - 40°C to + 100°C at $0.5 \times \text{UN}$
Inductance	$< 50\text{nH}$
Lifetime expectancy	100,000 hours at UN and 60°C
Reliability	300FIT
Test voltage	Terminal/Terminal = $1.5 \times \text{UNDC}$, 10s Terminal/Earth = $2 \times \text{UR} + 1000\text{VAC}$, 60s
Casing material	Aluminum/Lathene; UL 94V0
Filling	Resin Dry, UL 94, V0
Standards	IEC 61071-1, EN 61071, IEC 68-2 and IEC 61881

DIMENSIONS



TYPE DESCRIPTION

TYPE HDMKP	RATED VOLTAGE		CAPACITANCE (μ F)	CURRENT* MAX. (A)	du/dt MAX. (V/ μ s)	HEIGHT (mm)	WEIGHT (kg)
	DC (V)	AC (V)					
900-360	900	220	360	50	20	105	0.71
900-460	900	220	460	100	15	135	0.92
900-720	900	220	720	100	15	185	1.25
900-950	900	220	950	80	15	235	1.6
900-1080	900	220	1080	150	15	260	1.75
1.35-160	1350	325	160	50	30	105	0.71
1.35-200	1350	325	200	100	30	135	0.92
1.35-320	1350	325	320	100	30	185	1.25
1.35-400	1350	325	400	80	30	235	1.6
1.35-480	1350	325	480	150	30	260	1.75
2.0-70	2000	500	70	50	50	105	0.71
2.0-90	2000	500	90	100	50	135	0.92
2.0-140	2000	500	140	100	50	185	1.25
2.0-180	2000	500	180	80	50	235	1.6
2.0-210	2000	500	210	150	50	260	1.75
2.25-55	2250	550	55	50	60	105	0.71
2.25-75	2250	550	75	100	60	135	0.92
2.25-110	2250	550	110	100	60	185	1.25
2.25-150	2250	550	150	80	60	235	1.6
2.25-165	2250	550	165	150	60	260	1.75
2.7-40	2700	660	40	50	50	105	0.71
2.7-50	2700	660	50	100	50	135	0.92
2.7-80	2700	660	80	100	50	185	1.25
2.7-100	2700	660	100	80	50	235	1.6
2.7-120	2700	660	120	150	50	260	1.75

Note: Other voltage and capacitance values are available upon request. Voltage up to 4800VDC

*Design current for short-time operation at 50°C



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